



# Platform and Protocol Compatibility for Unified CME

First Published: July 30, 2018

Last Updated: August 16, 2021

**Overview****Conventions****Platform and Protocol Support for Unified CME Features**

## Overview

This document provides information on the compatibility of Unified Communications Manager Express (Unified CME) across Cisco router platforms. The feature support information for each platform is based on protocol support (SIP and SCCP). The document is last updated for Unified CME 14.1 (Cisco IOS XE Bengaluru 17.6.1a) Release.

For information on the Cisco IOS XE and Cisco IOS Release mapping with Unified CME and Virtual CME, see [Unified CME, Unified SRST, and Cisco IOS Software Version Compatibility Matrix](#).

For information on feature description for Unified CME and Virtual CME, see [Cisco Unified Communications Manager Express System Administrator Guide](#).

The protocols discussed in this document are:

- Session Initiation Protocol (SIP)
- Skinny Client Control Protocol (SCCP)
- Mixed Deployment (Supports both SIP and SCCP) - If both SIP and SCCP are supported on a platform, the mixed deployment is supported by default.

The platforms discussed in this document are:

- Cisco Integrated Services Router Generation 2 (ISR G2)
- Cisco 4000 Series Integrated Services Routers (ISR G3)
- Cisco Cloud Services Router 1000V Series (CSR 1000V)
- Cisco Catalyst 8000V Edge Software (Catalyst 8000V)
- Cisco 8200 Catalyst Edge Series
- Cisco 8300 Catalyst Edge Series
- Cisco ESR 6300 Embedded Series Router
- Cisco 1100 Integrated Services Router

## Conventions

The following conventions are applicable to the information provided in the Feature Support sections.

Table 1: Conventions

Convention	Description
Yes	The feature is supported.
–	The feature is not supported.
ISR G2	Cisco Integrated Services Router Generation 2
ISR G3	Cisco 4000 Series Integrated Services Routers
CSR 1000V	Cisco Cloud Services Router 1000V Series
Catalyst 8000V	Cisco Catalyst 8000V Edge Software (Catalyst 8000V)
Catalyst 8200	Cisco 8200 Catalyst Edge Series Platforms
Catalyst 8300	Cisco 8300 Catalyst Edge Series Platforms
Cisco ESR 6300	Cisco ESR 6300 Embedded Series Router
Cisco ISR 1100	Cisco 1100 Integrated Services Router
SIP	Session Initiation Protocol
SCCP	Skinny Client Control Protocol
Unified CME	Cisco Unified Communications Manager Express
Virtual CME (vCME)	Unified CME on Cisco Cloud Services Router 1000V Series and Catalyst 8000V

## Platform and Protocol Support for Unified CME Features

This section provides feature support information specific to Cisco Unified Communications Manager Express (Unified CME). For information on feature specific support for Unified CME across platforms and protocols, see Table 2: Unified CME Feature Support.

Note:

- Unified CME Release 14.1 is available for Cisco 8200 and C8300 Catalyst Edge Series Platforms from Cisco IOS XE Bengaluru 17.6.1a onwards. For more information, see [Unified CME Features Roadmap](#) in Cisco Unified Communications Manager Express System Administrator Guide.
- Unified CME Release 14.1 is available for Cisco 1100 Integrated Services Routers from Cisco IOS XE Bengaluru 17.5.1a onwards. For more information, see [Unified CME Features Roadmap](#) in Cisco Unified Communications Manager Express System Administrator Guide.
- Unified CME Release 14.1 (Cisco IOS XE Bengaluru 17.4.1a) enhances the existing Smart License feature and supports Cisco Catalyst 8000V Edge Software (Catalyst 8000V) platforms. For more information, see [Unified CME Features Roadmap](#) in Cisco Unified Communications Manager Express System Administrator Guide.
- Unified CME Release 12.6 (Cisco IOS XE Gibraltar 16.11.1a) introduces a new password policy and supports SNMP version 3 (SNMPv3) and toll fraud prevention for line side SIP. For more information, see [Unified CME Features Roadmap](#) in Cisco Unified Communications Manager Express System Administrator Guide.
- Unified CME 12.6 and later releases do not support the features Web GUI and Computer Telephony Integration (CTI) Computer Supported Telecommunications Applications (CSTA) protocol suite.

Table 2: Unified CME Feature Support

Features	Routers with DSPs						Routers without DSPs	
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300	
	SIP	SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
Anonymous Call Block	Yes	–	Yes	–	Yes	–	Yes	–
Auto-Answer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
Auto Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Assign	–	Yes	–	Yes	–	Yes	–	Yes
Authenticate Register	Yes	–	Yes	–	Yes	–	Yes	–
Barge	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–

Features	Routers with DSPs						Routers without DSPs	
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300	
	SIP	SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
cBarge/Merge	Yes	Yes	Yes	Yes	Yes	Yes	–	–
Call Park	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Call Park Resume	–	–	–	–	–	–	–	–
Pickup	Group Pickup	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Direct Call Pickup	–	Yes	–	Yes	–	Yes	–
Distinctive Ring for Parked Call Recall	Yes (except 8800 Series IP Phones)	Yes	Yes (except 88XX Series IP Phones)	Yes	Yes (except 8800 Series IP Phones)	Yes	Yes (except 88XX Series IP Phones)	–

Features	Routers with DSPs						Routers without DSPs	
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300	
	SIP	SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
Park Monitor	Yes (except 7800 Series IP Phones)	Yes	Yes (except 7800 Series IP Phones)	Yes	Yes (except 7800 Series IP Phones)	Yes	Yes (except 7800 Series IP Phones)	–
Directed Call Park	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extension Mobility	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
Extension Assigner	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transfer	Alert Transfer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Attended/Consult Transfer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Blind Transfer	–	Yes	–	Yes	–	Yes	–

Features	Routers with DSPs							Routers without DSPs	
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300		
	SIP		SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
Conference	Meet-Me Conference	Yes	Yes	Yes	Yes	Yes	Yes	–	–
	Ad-hoc Hardware Conference	Yes	Yes	Yes	Yes	Yes	Yes	–	–
	Ad-hoc Software Conference	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	Video Conference	–	–	–	–	–	–	–	–
Hold/Resume	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intercom	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
Fast Track	Yes		–	Yes	–	Yes	–	Yes	–
Headset Answer	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
Line Label	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–

Features	Routers with DSPs							Routers without DSPs	
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300		
	SIP	SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)	
My Phone Apps - View On Phone	Speed Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	Personal Speed Dial/Fast Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	BLF Speed Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	Voice Hunt Groups	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	After Hours	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	Single Number Reach (SNR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	Active Call Park List	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
My Phone Apps - Add/Delete/Modify	Speed Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–



Features	Routers with DSPs						Routers without DSPs		
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300		
	SIP		SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
from Phone	Fast Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	BLF Speed Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
Single Number Reach (SNR)	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Park Retrieval	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paging	Multicast (Only with G711 ulaw codec)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	Unicast (Only with G711 ulaw codec)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
Shared Line	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>3</sup>
Mixed Shared Line	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>3</sup>

Features	Routers with DSPs						Routers without DSPs		
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300		
	SIP	SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)	
Voice Hunt Group with Shared Line	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Caller ID Display	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Caller ID Blocking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Feature Access Code (FAC) <sup>1</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Call Transfer Recall	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Voicemail	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Message Waiting Indicator (MWI)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>4</sup>	
Video <sup>2</sup>	Yes (except 8961)	Yes	Yes	Yes	Yes	Yes	Yes	–	
Locale Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	
Reset/Restart Phones via Reset/Restart Command	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	
Button Layout/Softkey Template	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	
Directory Services	Local Directory	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	Local Speed Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–

Features	Routers with DSPs						Routers without DSPs		
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300		
	SIP		SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
	Personal Speed Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
Privacy	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
iDivert* (Transfer to other mailboxes is not supported)	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
Enhanced iDivert	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
Do Not Disturb (DND)	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
DTMF	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Feature Button/Programmable Line Key (PLK)	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
Key Expansion Module (KEM)	C-KEM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	BE-KEM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	A-KEM (CP-8800-Audio)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–

Features	Routers with DSPs						Routers without DSPs		
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300		
	SIP		SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
	V-KEM (CP-8800-Video)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
Bulk Registration Support	Yes		–	Yes	–	Yes	Yes	Yes	–
Upgrading/Downgrading Phone Firmware Versions	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
Live Record	–		Yes	–	Yes	Yes	Yes	–	–
Enabling/Disabling KPML	Yes		–	Yes	–	Yes	Yes	Yes	–
Alias Feature	–		–	–	–	–	–	–	–
Call Forward	All	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Busy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	No Answer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mailbox	Yes	–	Yes	–	Yes	–	Yes	–
	Unregistered	Yes	–	Yes	–	Yes	–	Yes	–

Features	Routers with DSPs						Routers without DSPs		
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300		
	SIP		SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
	Night-Service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Max-Length	–	Yes	–	Yes	–	Yes	–	Yes
Call Forward All Softkey on Phone	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
Multicast MOH	–		Yes	–	Yes	–	Yes	–	–
Unicast MOH	Yes		Yes	Yes	Yes	Yes	Yes	Yes <sup>5</sup>	Yes
Basic Automatic Call Distribution (B-ACD)	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Night Service	Yes		Yes	Yes	Yes	Yes	Yes	Yes	–
Voice Hunt Group	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Channel Hunt Stop	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Voice Hunt Group/Ephone Hunt Group Statistics	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Translation Profile	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Busy Trigger Per Button	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Conference Blocking	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	Routers with DSPs						Routers without DSPs	
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300	
	SIP	SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
Transfer Blocking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Voice Class Codec	Yes	–	Yes	–	Yes	–	Yes	–
Audio Codecs	G.722	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	G.711	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	G.729	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	iLBC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transcoding	Yes	Yes	Yes	Yes	Yes	Yes	–	–
Multi-VRF (Only supported on ISR G2)	Yes	Yes	–	–	–	–	–	–
SNMP/MIB	–	Yes	–	Yes	–	Yes	–	Yes
Web GUI	Yes	Yes	–	–	–	–	–	–
IOS XE Web GUI	–	–	Yes	–	Yes	–	Yes	–
CTI CSTA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Speed Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Busy Lamp Field (BLF)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
Call Waiting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	Routers with DSPs						Routers without DSPs		
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300		
	SIP	SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)	
Forced Authorization Code	–	Yes	–	Yes	–	Yes	–	Yes	
HTTP File Server (HFS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	
Redial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Speakerphone	Dialing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Answering	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
System Message	–	Yes	–	Yes	–	Yes	–	–	
Whisper Intercom	–	Yes	–	Yes	–	Yes	–	–	
Abbreviated Dialing	–	Yes	–	Yes	–	Yes	–	–	
After Hours	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
SSH to Phone	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	
Span to PC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	
Web Access to Phone	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	
Callback	–	Yes	–	Yes	–	Yes	–	–	
Call Waiting Ring/Tone	–	Yes	–	Yes	–	Yes	–	–	
Secondary CME	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Features	Routers with DSPs						Routers without DSPs	
	ISR G2		ISR G3		C8200 and C8300		CSR 1000V, Catalyst 8000V, ISR 1100, ESR 6300	
	SIP	SC CP	SIP	SC CP	SIP	SCCP	SIP	SCCP (VG310, VG320, VG350)
Cisco Jabber for MAC (Supported from Cisco IOS XE Gibraltar 16.10.1 Release)	–	–	Yes	–	Yes	–	Yes	–
Cisco Jabber for Windows (Supported from Cisco IOS XE Gibraltar 16.10.1 Release)	–	–	Yes	–	Yes	–	Yes	–
SSL VPN Client	–	Yes	–	–	–	–	–	–
Virtual CME (Only on Cisco CSR1000V Cloud Services Router)	–	–	–	–	–	–	Yes	Yes
Secure CME	– <sup>6</sup>	Yes	–	–	–	–	–	–
Secure Lineside	–	Yes	–	–	–	–	–	–
SIP Trunk	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Secure SIP Trunk	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

1 - Limited feature support for FAC in Unified CME

2 - Video is supported only on specific endpoints

3 - No Hold/ Remote Resume Support on Shared Line, Mixed Shared Line

4 - For MWI, see [Configuring AMWI and VMWI](#)

5 - MOH Groups is not supported on Virtual CME

6 - Not validated and not supported by Cisco TAC



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Cisco Unified Communications Manager Express Phone Feature Support  
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